

Measuring-Transducer for Temperature

TMU100V for Pt 100 (RTD)

TMU100V



CE US

Part number: T236090

Model TMU100 Pt100 measuring transducers are suitable for measuring temperatures with sensors Pt100 (RTD).

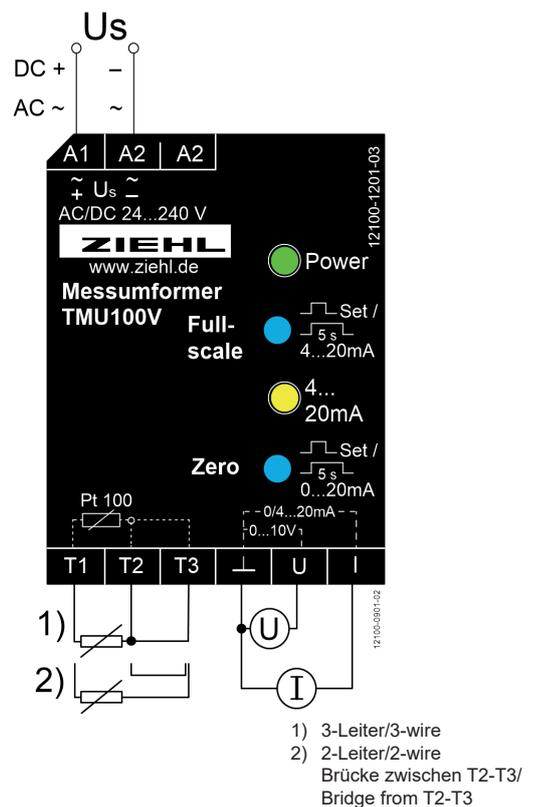
Zero and FullScale can be freely set within the whole range -199 ... +850 °C. To do this only resistors with the according value or a Pt 100-decade is connected. The adjustment is done by pressing a button.

The built-in universal power-supply AC/DC 24-240 V allows the connection to all common supply-voltages.

The Pt100- sensor can be connected in 2- or 3-wire connection. The output delivers 0/4 ... 20 mA and 0 ... 10 V simultaneously.

- Pt100-input 2- or 3-wire automatic compensation of
- line up to 500 Ω total resistance (sensor + line) Detection of sensor-break
- Easy adjustment of Zero and FullScale by pressing a button
- Wide measuring-range -200... +850 °C

- Analog output 0 ... 20 mA / 4 ... 20 mA
- Analog output 0 ... 10 V
- LEDs for display of operative state
- Universal supply AC/DC 24-240 V
- Housing for DIN-rail or wall-mount, 35 mm wide, mounting height 55 mm



Technical Data

Rated supply voltage U_s	AC/DC 24V...240 V, 0/50/60 Hz, < 3 W, <5 VA
Adm. tolerance DC	DC 20...297 V
Adm. tolerance AC	AC 19...264 V
Measuring input	Pt 100 EN 60751, 2-/3--wire, ≤0,8 mA
Temperature-range	-200 ... +850 °C
Resolution	0,1 K
Tolerance	± 0,5 % of measured value ±0,5 K
Temperature factor	<0,03 %/K
Analog output	DC 0...10 V, min. 1 kΩ DC 0/4...20 mA, max. 500 Ω
Error	< 0,3% of FullScale
Test conditons	EN 61010
Rated impulse withstand voltage	4000 V
Contamination level	2
Rated insulation voltage	250 V
Rated ambient temp. range	-20 ... +60 °C
Dimensions (h x w x d)	design V2: 90x35x58 mm, mounting height 55 mm
Weight	app. 130 g
Attachment	on 35 mm DIN-rail EN 60 715 or with screws M4
Protection housing / terminals	IP 20 / IP 30